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Canola Meal As A Protein Supplement For Laying Hens

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With adequate amino acid fortification these data indicate that either Canola, sunflower or soybean meal can be used for satisfactory performance of laying hens. No adverse effects on egg quality were noted.

Table 1. Effect of Protein Supplement and Protein Level of Egg Production, %

Protein Source	<u>Dietary Protein Level = %</u> 35-55 wks of age			Means
	17	15	13	
Soybean Meal	80.2	79.4	71.8	77.1
Sunflower Meal	78.1	76.2	75.2	76.5
Canola Meal	77.0	76.1	78.8	77.3
Means	78.4 ^a	77.2 ^{a,b}	75.2 ^b	

^{a,b} Values with unlike superscript are significantly different ($P < .01$).

Table 2. Effect of Protein Supplement and Protein Level on Egg Production, %

Protein Source	<u>Dietary Protein Level = %</u> 35-67 wks of age			Means
	17	15	13	
Soybean Meal	75.1	74.6	66.6	72.1
Sunflower Meal	74.2	71.6	70.3	72.0
Canola Meal	70.4	70.3	74.6	71.8
Means	73.2 ^a	72.2 ^a	70.5 ^a	

^a Protein source x level was significant ($P < .1$) for 8 period means. All other differences not significant.

Table 3. Effect of Protein Source and Protein Level
on Feed Conversion (g egg/g feed)

Protein Source	<u>Dietary Protein Level - %</u> 35-67 wks of age			Means
	17	15	13	
Soybean Meal	.40	.38	.36	.38
Sunflower Meal	.38	.37	.35	.37
Canola Meal	.37	.37	.37	.37
Means	.38 ^a	.37 ^{a,b}	.36 ^b	

a,b

Values with unlike superscript within an age group are significantly different ($P < .01$).

Table 4. Effect of Protein Source and
Protein Level on Mortality, %

Protein Source	<u>Dietary Protein Level - %</u>			Means
	17	15	13	
Soybean Meal	10.6	8.6	15.0	11.5
Sunflower Meal	7.1	11.3	9.2	9.2
Canola Meal	16.6	14.7	9.4	13.6
Means	11.4	11.5	11.2	